

Specifications	Model Number	
	TSB700REGBV	
	Application, Rating and Electrical Data	
Application	Storage of Blood Bags	
Storage Volume	620Liters / 21.9 Cubic Feet	
Factory Set Point	+4 °C	
Set Point / Increment	+4 °C (User Not allowed to change)	
Electrical Power / Rated Current	230V 50 Hz 1 Phase / 1.6A	
Building Supply Rating	16A 250V	
Power Plug/Power Cord Length	16 Amp 250V / 4 Meters (13 feet)	
Agency Listings	CE0051	
Standards and directives	2006/42/EC, 2014/30/EU, 2014/35/EU, 2011/65/UE, 2015/863/EU & 2012/19/EU	
Electromagnetic Compatibility	Emissions (Class A), Immunity (Industrial Environment)	
Indoor/Outdoor Usage	Indoor Use Only	
Application Environment	Non-Corrosive, Non-Flammable, Non-Explosive, Good Air Ventilation	
Ambient Operating Temperature	15° C to 32° C (59° F to 90° F)	
Refrigeration Configuration		
Refrigeration System	Vapor compression system	
Compressor / Number / Capacity	Single speed / 1 / 236W	
Condenser Type/Number	Forced-Air Cooled Finned-Tube Coil Heat Exchanger / 1	
Expansion Device	Capillary Tube	
Evaporator Type / Defrost Method	Forced Air Finned-Tube Coil Heat Exchanger / Automatic Defrost	
Refrigerant Charge / Flammability	R290,90gms,GWP:3 ODP:0 / Flammable	
Controller/Electrical System Configuration and Features		
Controller Level	Eye Level	
Power Switch	On the Controller Main Screen	
Controller Type	7" TFT LCD Touch Screen: Digital display, Automatic defrost system	
Setpoint Security / Programmable	Yes / Yes	
Compressor Safe Guard	Overload Protection (OLP)	
Control Sensor	PT100 probe (free contacts)	
Connectivity / Remote OutputsTerminals	Dry Contact (NO and NC)	
Adjustable Warm / Cold Alarms	Fully Adjustable	
Power Failure Alarm	Acoustic and Visual	
Electronic Chart Recorder	Not Provided	
Dimensions and Construction		
Interior Dimensions (H x D x W)	1500 mm x 686 mm x 600 mm (59" x 27.0" x 23.62")	
Exterior Dimensions (H x D x W)	2090 mm x 840 mm x 750 mm (82.3" x 33.1" x 29.52")	
Insulation	75 mm (2.95") Polyurethane Foam	
Door Perimeter heater	No	
Shelves / Load Limit	7 extractable aluminum drawers / 30kg (66 lbs) per Drawer	
Casters	2 Lockable Castors at the front & 2 Fixed Castors at the rear	
Non-Crated Shipping Weight	221 kg / 487.2 lbs	
Typical Performance Characteristics		
Set Point 4°C @ 20°C Ambient 		Test Unit Series Number or MSO Number: DME0702B-78148 Cabinet Load: Unloaded Average Cabinet Temp (C): 4.89 Peak Variation from Setpoint (C): -1.05/1.82 Uniformity (C): 0.62 Stability (C): 1.95 1-min Door Opening Recovery(min): 8 Cycle on Time(%) 26.32 Cycle (on/off) Time (min): 5/14 Energy Consumption (kw-hr/day): 1.5 Heat Rejection Rate (btu/hr): 213.26 Pull Down Time to setpoint:(Min): 45 Warm Up Time to 15°C (min): 321 Sound (dBA): 48.8
Set Point 4°C @ 20°C Ambient 		

1)Performance is nominal and individual units may vary.

2)Product performance will differ due to product amount, product size and operating conditions.

3)Continuous product enhancements may, without notice, result in amendments or omissions to this specification. Thermo Scientific cannot accept responsibility for damage, injury, loss or expenses resulting from misapplication of the information herein.

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Typical Cabinet Temperature Map
Refrigerator 23cuft , 7 Drawers, Single Outer Door

Temperatures are averages during > 20
cycles after reaching a setpoint of 4C

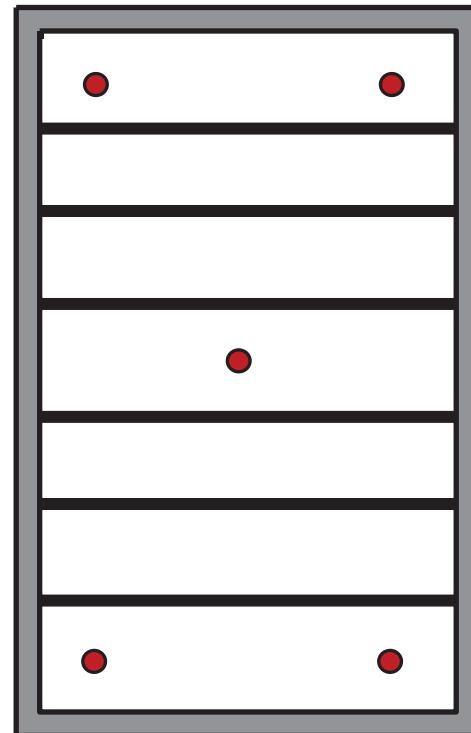
Top View of Shelves

M3	M4
M1	M2
M20	
M33	M34
M31	M32

REAR

FRONT

Front View



	M1	M2	M3	M4	M20
Avg	5.0	5.0	4.8	4.8	4.8
Max	5.7	5.7	5.8	5.8	5.7
Min	4.3	4.2	3.2	3.1	3.9
	M31	M32	M33	M34	
Avg	5.1	5.1	4.7	4.7	
Max	5.6	5.7	5.7	5.7	
Min	4.7	4.6	3	3.1	

Cabinet Average: 4.9 C
Peak Variation: +1.8 C / -1.0 C

* ONLY CABINET SHOWN FOR CLARITY IN TOP VIEW
TO ILLUSTRATE INTERIOR DIMENSIONS

